DOCUMENT RESUME

ED 341 576 SE 052 694

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TITLE	Revisiting Mathematics Education: China Lectures.
REPORT NO	ISBN-7923-1299-6
PUB DATE	13 Jun 91
NOTE	199p.; Mathematics Education Library Series, Volume 9. For related documents, see SE 052 585-587.
AVAILABLE FROM	Kluwer Academic Publishers, 101 Philip Drive, Norwell, MA 02061 ($69.00).
PUB TYPE	Books (010) -- Viewpoints (Opinion/Position Papers, Essays, etc.) (120)
EDRS PRICE	Document Not Available from EDRS.
DESCRIPTORS	Cognitive Development; Concept Formation; *Discovery Learning; Elementary Secondary Education; Heuristics; *Learning Processes; *Mathematical Concepts; *Mathematical Models; *Mathematics Education; Models; Teaching Methods
IDENTIFIERS	Constructivist Learning; Guided Discovery Approach; *Mathematical Structure; Mathematics Education Research

ABSTRACT

This book represents a compilation of the views and ideas of the late Hans Freudenthal, representing his last major contribution to the field of mathematics education. Rather than a presentation of new views, Freudenthal selected and streamlined old ideas, many gathered from his lectures in China, and formed a review of questions and issues in mathematics education. The book is divided into three chapters. Chapter 1, "Mathematics Phenomenologically", explores different aspects of mathematics: What is Mathematics?; "Didactical Principles", discusses the organization of the teaching/learning processes relevant to mathematics, and is divided into four subsections: (1) Guided Reinvention; (2) Bonds with Reality; (3) Learning Processes; and (4) Long-term Learning Processes. Finally, chapter 3, "The Landscape of Mathematics Education", explores the theoretical foundations of mathematics education, and relates it to the current research and practice in the fields in three subsections: (1) Theory of Mathematics Education; (2) Research in Mathematics Education; and (3) Practice of Mathematics Education. Included is a list of the author's publications on mathematics education containing 201 entries. (MDH)

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